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## COMMERCIAS ON THE WATER SUPPLIF OF YORKS.

The Su-is is in the rejor source of vater is the Turen eres. It is conveivable that the river could provide after for industrial use at a sustained rate of 30 m/sec (600,000 gal/min) or more, since the average year-round flow of the Su-is his when it leaves the nountains is slightly above 50 m/sec. Steady vithtramal of river water for industrial use in encess of 5 to 10 m/sec (approximately 60,000 to 100,000 gal/min), however, would probably be difficult, capacially during the vinter season, without drawing on some water storage. Substantial encounts of ground mater could probably be pumped at selected locations for sustained periods of some weeks; this could help to offset the vinter shortege of surface water.

Figures for month-to-month varietions in the rate of flow for the Du-lo No are not evellable. Comparison of the annual regime of the Amag-abul No, a much smaller river located about 450 kilometers to the Southwest, with the general characteristics ascribed to the Su-lo No, provides the besis for the following tebulation of hypothetical monthly everages, stated as proportions of the cannot everage, for the Su-lo No.

James 4	0.15	July	<b>5</b> .5
February	0.15	August	2.5
lieur ch	0.0	E-determine of	2.0
Appril:	0.5	Oc <b>arbo</b> er	1.5
Hey	ં. દે	A PROPERTY OF	0.5
June	1.0	Lacombar	0.2

between one-half and two-thirds of the Su-lo ke runoff from its nowekeld sources comes between Jums and September, peaking in July and August. It is unlikely that the everage rate of flow for the months of December, January, Pebruary, and March will exceed 10 m/sec.

The th'th-chin to is a small river fed by ranoff and by piedsont springs and is located about to kilometers sent of the fa-to He. It lives a mean amount flow rate of about 1.27 m/sec, roughly 2-1/2 percent that of the Su-to He. Ground vater levels near the Ch'th-chin He are probably high enough to permit accomminal pumping of ground water up to a rate of about 1 m2/sec (15,600 gel/sin) for emergency use.

SECRET

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GROUP 1
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Large-scale withdrescals of vater from the Du-lo he system are libely to disrupt the agricultural economy of the eases along the Su-lo Mo, requiring that the Chinese Communist authorities either put those onset on short vater rations or find substitute sources of vater. Buturns of most water to the pindanot gravels in the setting here cavinged will not appreciably benefit the Su-lo Ho system, but will be a contribution to the water-poor area west of Fing-p'en-pec on the lower Ch'ih-chin Exet the edge of the Rus-hei-tre basis. Any sudden respicarement of the labe in that basis would indicate that this is happening.

The upper slope of the Pu-lo Bo's alluvial fem is not a suitable location for prolonged mater storage, because a reservoir here would be fairly shallow and the underlying gravels are doubtless highly permeable. There are two locations forther upstress along the Su-lo So where the building of dams for water storage has been envisaged by the Chinese. The use of large quantities of water for industrial purposes probably requires that such reservoirs be built ultimately, if they do not now exist.

The quality of the veter from the Su-le No is likely to be good. The river is fed by a well-beloaced combination of rainfall and meltwater. Its bad is generally rocky, and its milt load low. The degree of mineralization of streem water as the river leaves the mountains is probably 
alight. Downstreem from the best of the alluvial fan, however, minerelization of ground mater increases rapidly, and additions of mineralization of Su-lo No water below 
from. The mater of the Su-lo No mear the head of the fan, however, is 
probably as good as if not better them the water of any other streem of 
comparable size in the region of the Renau corridor.

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